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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/640,805	08/17/2000	Yushi Ihara	450100-02652	6208

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FROMMER LAWRENCE & HAUG
745 FIFTH AVENUE- 10TH FL.
NEW YORK, NY 10151

EXAMINER	
FOSTER, JUSTIN B	

ART UNIT	PAPER NUMBER
2624	4

DATE MAILED: 02/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/640,805	Applicant(s) IHARA, YUSHI	
	Examiner Justin Foster	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukunaga, *et al.* (6,603,737). With regard to claim 1, Fukunaga discloses an image processing apparatus (DVC 101, figure 1A) comprising image processing means (DVC 101, figure 1A) for generating desired still image data corresponding to image data inputted from outside (it is inherent that a digital video camera generates image data inputted from outside); printing control information generating means (command register 43-1, figure 34) for generating the printing control information for controlling a printing device ("The command is used for printing", column 22, lines 38-39); outputting means (1394 serial bus, figure 1A) for having the still image data generated by said image processing means included in a packet pursuant to the IEEE 1394 standard for outputting to a printing device (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27), said outputting means defining the printing control information generated by said printing control information generating means by an AV/C command set consistent with an FCP pursuant to the IEEE 1394 standard ("FCP packet frame returned from the target ... AV/C response frame", column 18, lines 2-3) for outputting to said printing device ("In an AV/C protocol, a Function Control

Protocol is provided to control devices", column 17, lines 61-62); said outputting means outputting said printing control information ("A command sent from the image providing device to the printer is written as a command frame into a command register", column 22, lines 36-38) and subsequently outputting said still image data to said printing device ("Print data sent from the image providing device to the printer is written into a data register", column 22, lines 43-45).

3. With regard to claim 2, Fukunaga discloses the invention as stated in claim 1. Fukunaga further discloses wherein said printing control information contains printing layout information ("The format type commands include a command SetFormat to set a format", column 24, lines 63-64, a format inherently contains printing layout information).

4. With regard to claim 3, Fukunaga discloses an image processing method (column 2, line 30) comprising generating desired still image data corresponding to image data inputted from outside ("form an image based on image data provided from the image providing device", column 21, lines 46-47); generating the printing control information for controlling a printing device ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39); defining the generated printing control information by an AV/C command set conforming to an FCP pursuant to the IEEE 1394 standard for outputting to said printing device ("FCP packet frame sent from the controller ... AV/C command frame", column 17, line 67 through column 18, line 1); and having the generated still image data included in a packet pursuant to the IEEE 1394 standard for outputting to said printing device (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27).

5. With regard to claim 4, Fukunaga discloses the invention as stated in claim 3. Fukunaga further discloses wherein said printing control information contains printing layout information ("The format type commands include a command SetFormat to set a format", column 24, lines 63-64, a format inherently contains printing layout information).

6. With regard to claim 5, Fukunaga discloses a printing device (printer 102, figure 1A) comprising input means (1394 serial bus, figure 1A) for inputting still image data ("image data provided from the image providing device", column 21, lines 46-47) included in a packet pursuant to the IEEE 1394 standard (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27) and the printing control information (command register 43-1, figure 34) defined in an AV/C command set consistent with an FCP pursuant to the IEEE 1394 standard ("FCP packet frame returned from the target ... AV/C response frame", column 18, lines 2-3); and printing means (printer 102, figure 1A) for printing the still image data inputted to said input means ("enable the printer to form an image based on image data provided from the image providing device", column 21, lines 46-47); said still image data being inputted to said input means after inputting said printing control information thereto (figure 34, command frame containing control information is sent before data frame containing print data); said printing means printing said still image data in accordance with said printing control information ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39).

7. With regard to claim 6, Fukunaga discloses the invention as stated in claim 5. Fukunaga further discloses wherein said printing control information contains printing layout information

("The format type commands include a command SetFormat to set a format", column 24, lines 63-64, a format inherently contains printing layout information).

8. With regard to claim 7, Fukunaga discloses a printing method (column 2, line 30) comprising inputting the printing control information (command register 43-1, figure 34) defined in an AV/C command set with an FCP pursuant to the IEEE 1394 standard ("FCP packet frame returned from the target ... AV/C response frame", column 18, lines 2-3); inputting still image data ("image data provided from the image providing device", column 21, lines 46-47) included in a packet pursuant to the IEEE 1394 standard (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27); and printing said still image data ("enable the printer to form an image based on image data provided from the image providing device", column 21, lines 46-47); in accordance with the input printing control information ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39).

9. With regard to claim 8, Fukunaga discloses the invention as stated in claim 7. Fukunaga further discloses wherein said printing control information contains printing layout information ("The format type commands include a command SetFormat to set a format", column 24, lines 63-64, a format inherently contains printing layout information).

10. With regard to claim 9, Fukunaga discloses an image processing system (figure 1A) comprising an image processing device (DVC 101, figure 1A); said image processing device including image processing means (inherent in DVC 101, figure 1A) for generating desired still image data corresponding to image data inputted from outside ("form an image based on image data provided from the image providing device", column 21, lines 46-47); printing control

information generating means (command register 43-1, figure 34) for generating the printing control information for controlling a printing device ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39); and outputting means (1394 serial bus, figure 1A) for having the still image data generated by said image processing means included in a packet pursuant to the IEEE 1394 standard for outputting to a printing device (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27), said outputting means defining the printing control information generated by said printing control information generating means by an AV/C command set consistent with an FCP pursuant to the IEEE 1394 standard ("FCP packet frame returned from the target ... AV/C response frame", column 18, lines 2-3) for outputting to said printing device ("In an AV/C protocol, a Function Control Protocol is provided to control devices", column 17, lines 61-62); said outputting means outputting said printing control information ("A command sent from the image providing device to the printer is written as a command frame into a command register", column 22, lines 36-38) and subsequently outputting said still image data to said printing device ("Print data sent from the image providing device to the printer is written into a data register", column 22, lines 43-45); input means (1394 serial bus, figure 1A) for inputting said still image data ("image data provided from the image providing device", column 21, lines 46-47) and the printing control information from said image processing device ("A command is sent from the image providing device to the printer is written as a command frame", column 22, lines 36-37); and printing means (printer 102, figure 1A) for printing the still image data inputted to said input means ("enable the printer to form an image based on image data provided from the image providing device", column 21, lines 46-47) in

accordance with said printing control information ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39).

11. With regard to claim 10, Fukunaga discloses the invention as stated in claim 9. Fukunaga further discloses wherein said printing control information contains printing layout information ("The format type commands include a command SetFormat to set a format", column 24, lines 63-64, a format inherently contains printing layout information).

12. With regard to claim 11, Fukanaga discloses an image printing method (column 2, line 30) wherein on the image processing device side (DVC 101, figure 1A), desired still image data corresponding to image data inputted from outside is generated (inherent function of a digital video camera), the printing control information for controlling a printing device is generated ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39), the generated printing control information is defined by an AV/C command set consistent with an FCP pursuant to the IEEE 1394 standard, for transmitting the information to the printing device ("FCP packet frame returned from the target ... AV/C response frame", column 18, lines 2-3), and the so-generated still image data is included in a packet pursuant to the IEEE 1394 standard for transmitting the resulting packet to said printing device (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27); and wherein on the printing device side, the printing control information transmitted from the image processing device is received (command register 43-4, figure 34), the still image data transmitted from said image processing device is received (data register 43-6, figure 34) and wherein said still image data is printed based on the so-received printing control

information ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39).

13. With regard to claim 12, Fukunaga discloses the invention as stated in claim 11. Fukunaga further discloses wherein said printing control information contains printing layout information ("The format type commands include a command SetFormat to set a format", column 24, lines 63-64, a format inherently contains printing layout information).

14. With regard to claim 13, Fukunaga discloses a recording medium (figure 2) having stored therein an image processing program (software unit 802, figure 2), said image processing program comprising generating desired still image data corresponding to image data inputted from outside (inherent function of a digital video camera); generating the printing control information for controlling a printing device ("The command is used for printing", column 22, lines 38-39); defining the generated printing control information by an AV/C command set conforming to an FCP pursuant to the IEEE 1394 standard for outputting the resulting information to said printing device ("FCP packet frame sent from the controller ... AV/C command frame", column 17, line 67 through column 18, line 1); and having the generated still image data included in a packet pursuant to the IEEE 1394 standard for outputting the resulting packet to said printing device (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27.

15. With regard to claim 14, Fukunaga discloses a recording medium (figure 2) having stored therein a printing program (software unit 802, figure 2), said printing program comprising inputting the printing control information (command register 43-1, figure 34) defined in an AV/C command set consistent with an FCP pursuant to the IEEE 1394 standard ("FCP packet frame

returned from the target ... AV/C response frame", column 18, lines 2-3); inputting still image data ("image data provided from the image providing device", column 21, lines 46-47) included in a packet pursuant to the IEEE 1394 standard (inherent from "printer 102 and a digital video camera 101 are connected via a 1394 serial bus", column 6, lines 23-27); and printing said still image data ("enable the printer to form an image based on image data provided from the image providing device", column 21, lines 46-47); in accordance with the input printing control information ("A command sent from the image providing device to the printer ... is used for printing", column 22, lines 36-39).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Foster whose telephone number is (703)305-1900. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Moore can be reached on (703)308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JF

David N Chase

DAVID MOORE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600